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1 of 3

## SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800

Rev. 1/26/2006 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 22511.

Date 3/12/07 Serial # 17722,597 Priority Application Date 11/28/07  
 Your Name M. Harris Examiner # 73172  
 AU 25829 Phone 202-1838 Room 5A39  
 In what format would you like your results? Paper is the default. PAPER ☐ DISK ☐ EMAIL ☐

If submitting more than one search request form, please prioritize the searches in order of need.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB  
 Other: need paper 3:20

What relevant art have you found so far? Please attach citations or Information Disclosure Statements.

What types of references would you like? Please checkmark:

Primary Refs ☐ Nonpatent Literature ☐ Teaching Refs ☐  
 Secondary Refs ☐ Foreign Patents ☐ Other ☐

MAR 13

Is this a "Fast & Focused Search" request? (Circle One) YES ☐ NO ☒

A "Fast & Focused Search" is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2800 and on the STIC NPL Web Page at <http://uspto-a-pattr-2/siraapps/stic/npl/nplsearch.htm>

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 4-14 & 21  
Head transfer device

Problem: See pages 1-5  
Solution: 11 11 5-8

6631,077  
2602/0039250

### Staff Use Only

Searcher: Michael Harris

Searcher Phone: 571-278-2663

Searcher Location: STIC-EIC2800, JEF-4B68

Date Searcher Picked Up: 3/14/2007

Date Completed: 3/14/2007

Searcher Prep/Rev Time: 86

### Type of Search

Structure (#) ☐

Bibliographic ☒

Litigation ☐

Fulltext ☐

Patent Family ☐

Other ☐

### Vendors

STN ☐

Dialog ☒

Questel/Orbit ☐

Lexis-Nexis ☐

WWW/Internet ☐

Other ☐

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[File 2] INSPEC 1898-2006/Jan W2  
 [File 6] NTIS 1964-2006/Jan W4  
 [File 8] Ei Compendex(R) 1970-2006/Jan W4  
 [File 34] SciSearch(R) Cited Ref Sci 1990-2006/Jan W4  
 [File 434] SciSearch(R) Cited Ref Sci 1974-1989/Dec  
 [File 35] Dissertation Abs Online 1861-2006/Jan  
 [File 65] Inside Conferences 1993-2006/Jan W5  
 [File 94] JICST-EPlus 1985-2006/Nov W3  
 [File 99] Wilson Appl. Sci & Tech Abs 1983-2006/Apr  
 [File 144] Pascal 1973-2006/Jan W2  
 [File 23] CSA Technology Research Database 1963-2006/Jan  
 [File 103] Energy SciTec 1974-2006/Jan B1  
 [File 31] World Surface Coatings Abs 1976-2006/Jan  
 [File 95] TEME-Technology & Management 1989-2006/Jan W5  
 [File 56] Computer and Information Systems Abstracts 1966-2006/Aug  
 [File 57] Electronics & Communications Abstracts 1966-2006/Aug  
 [File 68] Solid State & Superconductivity Abstracts 1966-2006/Jan  
 [File 60] ANTE: Abstracts in New Tech & Engineer 1966-2006/Jan  
 [File 293] Engineered Materials Abstracts 1966-2006/Jan  
 [File 239] Mathsci 1940-2005/Feb  
 [File 256] TECINFOSOURCE 82-2005/DEC

Set	Items	Description
S1	6171779	S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB OR P()C()B OR TAB OR T()A()B OR PRINT????()CIRCUIT()BOARD??? OR CIRCUIT???()BOARD??? OR LOAD()BOARD??? OR LOADBOARD???? OR LSI OR L()S()I OR ASIC OR A()S()I()C OR ELECTRON???()DEVICE? ? OR PRINT???()CIRCUIT??? OR IC OR I()C OR INTEGRAT????()CIRCUIT??? OR CHIP? ? OR WAFER??? OR MICROCHIP? ? OR MICRO()CHIP? ? OR VLSI OR V()L()S()I OR FLEX????(3N)CIRCUIT??? OR FLEX???? OR (LEAD? ? OR WIRE? ? OR WIRING OR LINE? ? OR TRAC???? OR INTEGRAT????) (3N)FLEX???? OR CIRCUIT????
S2	1438832	S PLATE()LIKE OR PLATE? ? OR (LOGIC??? OR MEMOR????) (2N) (ELEMENT??? OR UNIT??? OR MODUL??? OR PIEC??? OR COMPONENT??? OR ITEM???? OR CHIP???? OR PART????)
S3	96890	S CIRCUIT????(3N) (LAYER???? OR FILM???? OR COAT???? OR COVER???????? OR SHEET???? OR LAMIN???? OR OVERLAY???? OR CHIP OR COVER()LAY???? OR COVER()COAT???? OR MASK????) OR CIRCUIT??? (2N)FORM????
S4	4424990	S HEAT????(3N) (LAYER???? OR FILM???? OR COAT???? OR COVER???????? OR SHEET???? OR LAMIN???? OR OVERLAY???? OR CHIP OR COVER()LAY???? OR COVER()COAT???? OR MASK????) OR SILIC???? OR SI OR POLYSI???? OR HEAT(2N)TRANSFER???
S5	368546	S CLOS????(3N) (PASSAG???? OR PATH???? OR ROUT???? OR DIRECT???? OR LINE? ? OR OUTLET? ? OR CANAL???? OR CHANNEL???? OR ORIFICE? ?) OR FLOW(3N) (PASSAG???? OR PATH???? OR ROUT???? OR DIRECT???? OR LINE? ? OR DUCT???? OR OUTLET? ? OR CANAL???? OR CHANNEL???? OR ORIFICE? ?)
S6	10589793	S FLUID???? OR WATER???? OR LIQUI???? OR SOLVENT OR OPERAT??? (2N)FLUID????
S7	47941	S HERMETIC???? (2N) (ENCLOS???? OR SEAL???? OR MOUNT???? OR HOUS????) OR AIRTIGHT OR AIR()TIGHT OR IMPERMEAB????
S8	1915698	S VIBRAT???? OR EVAPORAT???? OR BUMP???? OR DRIV???? (3N) (MEANS OR METHOD OR DEVICE OR APPT OR APPARATUS????)
S9	304253	S (RESIST???? OR OHMI????) (3N) (LAYER???? OR FILM???? OR COAT???? OR COVER???? OR SHEET???? OR LAMIN???? OR OVERLAY???? OR CHIP OR COVER()LAY???? OR COVER()COAT???? OR MASK????)
S10	959010	S (REDUC???? OR DECREAS???? OR LOWER???? OR ELIMINAT???? OR MINIM???? OR SUPPRES???? OR REMOV????) (3N) (HOTSPOT? ? OR HOT()SPOT? ? OR HEAT???? OR THERM???? OR TEMP???? OR HOTNESS)
S11	773256	S (HEAT??? OR THERM???? OR TEMP????) (2N) (GENERAT??? OR PRODUC???? OR DENSIT???? OR DETECT??? OR SENS????)

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S12	0	S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8 AND S9 AND S10 AND S11
S13	0	S S1 AND S2 AND S5 AND S6 AND S7 AND S8
S14	0	S S1(3N)S5 AND S6 AND S7
S15	157	S S1(3N)S5 AND S2
S16	0	S S15 AND S7
S17	16	S S15 AND S8
S18	11	RD (unique items)
S19	2	S S15 AND S3 AND S4
S20	2	RD (unique items)
S21	64	S S15 AND S6
S22	1	S S21 AND S9
S23	3	S S21 AND S10
S24	3	RD (unique items)
S25	5	S S21 AND S11
S26	5	RD (unique items)
S27	8071	S S1 AND S10 AND S11
S28	127	S S27 AND S5
S29	79	S S28 AND S6
S30	3	S S29 AND S7
S31	1	RD (unique items)
S32	12	S S29 AND S8
S33	9	RD (unique items)
S34	5	S S29 AND S9
S35	3	RD (unique items)
S36	50	S S29 AND S4
S37	2	S S36 AND S3
S38	1	RD (unique items)
S39	9	S S36 AND S2
S40	8	RD (unique items)
S41	0	S S1(3N)S5 AND S7
S42	803	S S1(3N)S5 AND S6
S43	46	S S42 AND S10
S44	2	S S43 AND S8
S45	2	RD (unique items)
S46	1	S S22 NOT S20
S47	3	S S24 NOT (S20 OR S22)
S48	3	S S26 NOT (S20 OR S22 OR S24)
S49	1	S S31 NOT (S20 OR S22 OR S24 OR S26)
S50	9	S S33 NOT (S20 OR S22 OR S24 OR S26 OR S31)
S51	2	S S35 NOT (S20 OR S22 OR S24 OR S26 OR S31 OR S33)
S52	1	S S38 NOT (S20 OR S22 OR S24 OR S26 OR S31 OR S33 OR S35)
S53	5	S S40 NOT (S20 OR S22 OR S24 OR S26 OR S31 OR S33 OR S35 OR S38)
S54	2	S S45 NOT (S20 OR S22 OR S24 OR S26 OR S31 OR S33 OR S35 OR S38 OR S40)
S55	11	S S18 NOT (S20 OR S22 OR S24 OR S26 OR S31 OR S33 OR S35 OR S38 OR S40 OR S45)

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[File 344] Chinese Patents Abs Jan 1985-2006/Jan  
[File 347] JAPIO Nov 1976-2005/Sep(Updated 060103)  
[File 350] Derwent WPIX 1963-2006/UD,UM &UP=200607  
[File 371] French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	4758948	S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB OR P()C()B OR TAB OR T()A()B OR PRINT???()CIRCUIT()BOARD??? OR CIRCUIT???()BOARD??? OR LOAD()BOARD??? OR LOADBOARD???? OR LSI OR L()S()I OR ASIC OR A()S()I()C OR ELECTRON???()DEVICE? ? OR PRINT???()CIRCUIT??? OR IC OR I()C OR INTEGRAT???()CIRCUIT??? OR CHIP? ? OR WAFER??? OR MICROCHIP? ? OR MICRO()CHIP? ? OR VLSI OR V()L()S()I OR FLEX????(3N)CIRCUIT??? OR FLEX????? OR (LEAD? ? OR WIRE? ? OR WIRING OR LINE? ? OR TRAC????? OR INTEGRAT?????) (3N)FLEX????? OR CIRCUIT?????
S2	2459007	S PLATE()LIKE OR PLATE? ? OR (LOGIC??? OR MEMOR????) (2N) (ELEMENT??? OR UNIT??? OR MODUL??? OR PIEC??? OR COMPONENT??? OR ITEM????? OR CHIP????? OR PART?????)
S3	216412	S CIRCUIT?????(3N) (LAYER????? OR FILM????? OR COAT????? OR COVER????????????? OR SHEET????? OR LAMIN????????? OR OVERLAY????????? OR CHIP OR COVER()LAY??????? OR COVER()COAT??????? OR MASK?????) OR CIRCUIT??? (2N)FORM????
S4	1536641	S HEAT?????(3N) (LAYER????? OR FILM????? OR COAT????? OR COVER????????????? OR SHEET????? OR LAMIN????????? OR OVERLAY????????? OR CHIP OR COVER()LAY??????? OR COVER()COAT??????? OR MASK?????) OR SILIC????????? OR SI OR POLYSI????????? OR HEAT(2N)TRANSFER????
S5	396336	S CLOS????(3N) (PASSAG????? OR PATH????????? OR ROUT????????? OR DIRECT????????? OR LINE? ? OR OUTLET? ? OR CANAL????? OR CHANNEL????? OR ORIFICE? ?) OR FLOW(3N) (PASSAG????? OR PATH????????? OR ROUT????????? OR DIRECT????????? OR LINE? ? OR DUCT????????? OR OUTLET? ? OR CANAL????? OR CHANNEL????? OR ORIFICE? ?)
S6	4686459	S FLUID????? OR WATER????? OR LIQUI????? OR SOLVENT OR OPERAT??? (2N)FLUID????
S7	139459	S HERMETIC???? (2N) (ENCLOS???? OR SEAL???? OR MOUNT???? OR HOUS?????) OR AIRTIGHT OR AIR()TIGHT OR IMPERMEAB????
S8	1158884	S VIBRAT????????? OR EVAPORAT????????? OR BUMP????? OR DRIV????????? (3N) (MEANS OR METHOD OR DEVICE OR APPT OR APPARATUS?????)
S9	300930	S (RESIST????? OR OHMI?????) (3N) (LAYER????? OR FILM????? OR COAT????? OR COVER????????????? OR SHEET????? OR LAMIN????????? OR OVERLAY????????? OR CHIP OR COVER()LAY????????? OR COVER()COAT????????? OR MASK?????)
S10	465805	S (REDUC????? OR DECREAS????????? OR LOWER????? OR ELIMINAT????????? OR MINIM????????????? OR SUPPRES????? OR REMOV?????????) (3N) (HOTSPOT? ? OR HOT()SPOT? ? OR HEAT????????? OR THERM????????? OR TEMP????????????? OR HOTNESS)
S11	485040	S (HEAT??? OR THERM????? OR TEMP?????????) (2N) (GENERAT????? OR PRODUC????????? OR DENSIT????? OR DETECT????? OR SENS?????)
S12	107944	IC=(F28D-015/00 OR F28D-015/02 OR F28F-003/12 OR H01L-021/822 OR H01L-023/34 OR H01L-023/427 OR H01-023/473 OR H01L?027/04 OR H05K-007/20) FROM 344, 347, 350, 371
S13	1067	S MC=(U11-DO2D1 OR V04-T03H)
S14	1	S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8 AND S9 AND S10 AND S11
S15	82	S S1 AND S5 AND S7 AND S8
S16	7	S S15 AND S12
S17	1	S S16 AND S13
S18	48	S S15 AND S6
S19	3	S S18 AND S9
S20	9	S S18 AND S2
S21	1	S S18 AND S3 AND S4
S22	5	S S18 AND S10
S23	9	S S18 AND S11
S24	204	S S1(3N)S5(3N)S8
S25	101	S S24 AND S6

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S26	1	S S25 AND S7
S27	7	S S25 AND S11
S28	8	S S25 AND S2
S29	9	S S25 AND S3
S30	12	S S25 AND S4
S31	0	S S25 AND S9
S32	12	S S25 AND S10
S33	6	S S16 NOT S14
S34	0	S S17 NOT (S14 OR S16)
S35	2	S S19 NOT (S14 OR S16 OR S17)
S36	8	S S20 NOT (S14 OR S16 OR S17 OR S19)
S37	0	S S21 NOT (S14 OR S16 OR S17 OR S19 OR S20)
S38	3	S S22 NOT (S14 OR S16 OR S17 OR S19 OR S20 OR S21)
S39	4	S S23 NOT (S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22)
S40	1	S S26 NOT (S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 OR S23)
S41	7	S S27 NOT (S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 OR S23 OR S26)
S42	8	S S28 NOT (S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 OR S23 OR S26 OR S27)
S43	8	S S29 NOT (S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 OR S23 OR S26 OR S27 OR S28)
S44	6	S S30 NOT (S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 OR S23 OR S26 OR S27 OR S28 OR S29)
S45	6	S S32 NOT (S14 OR S16 OR S17 OR S19 OR S20 OR S21 OR S22 OR S23 OR S26 OR S27 OR S28 OR S29 OR S30)